

Notice of Allowability

Application No.

10/684,094

Examiner

Gary F Paumen

Applicant(s)

DOZIER ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

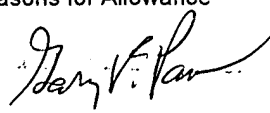
1. ☒ This communication is responsive to the responses filed 11/26 and 12/22, 2004.
2. ☒ The allowed claim(s) is/are 62-64, 66 and 68-89.
3. ☒ The drawings filed on 10/10/03 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 11/26/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


Gary Paumen
Primary Examiner

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney Kenneth Burraston on January 19, 2005.

The application has been amended as follows:

In the Abstract, lines 16-33, "For example,.....connections therebetween." has been deleted.

Page 1, lines 8-12 now read as follows:

-- This is a continuation-in-part of commonly-owned U.S. Patent No. 6,336,269 issued January 8,2002, which is a continuation-in-part of commonly-owned U.S. Patent No. 5,917,707 issued June 29, 1999 and --; lines 15-17 now read as follows: -- which are continuations-in-part of commonly-owned U.S. Patent No. 5,476,211 issued December 19, 1995. --; last line, "pending" has been changed to -- abandoned --.

Claims 65 and 67 have been canceled.

Claim 62, line 8, -- , wherein ones of said second contact structures comprise solder -- has been inserted before the semicolon; last line, the period has been changed to a comma and the following paragraph has been inserted thereafter:

-- wherein said support substrate comprises electrically conductive through holes electrically connecting said ones of said first contact structures with said ones of said second contact structures. --.

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Claim 84, line 8, -- , wherein said second means comprises solder – has been inserted before the semicolon; penultimate line, -- connecting – has been inserted before the first instance of “means”; last line, – , wherein said connecting means . comprises electrically conductive through holes in said support substrate electrically connecting said first connection means with said second connection means – has been inserted before the period.

The following is an examiner's statement of reasons for allowance: none of the prior art of record, particularly the applied art, discloses or teaches the combination of the second contact structures (connection means) comprising solder; and electrically conductive through holes in the support substrate electrically connecting the first contact structures (connection means) with the second contact structures (connection means).

NOTE: THE POST OFFICE ADDRESS AND RESIDENCE OF INVENTOR ELDRIDGE MUST BE SUPPLIED.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary F Paumen whose telephone number is 571-272-2013. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on 571-272-2800, ext. 33. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gfp



Gary Paumen
Primary Examiner